

Publication CN1201355

number:

Publication date: 1998-12-09

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Classification:

- **International:** G01S5/00; G01S5/14; H04Q7/38; G01S5/00; G01S5/14; H04Q7/38; (IPC1-7): H04Q7/34

- **European:** G01S5/00R1B; G01S5/14; H04Q7/38L

Application CN19981008706 19980529

number:

Priority US19970866901 19970530

number(s):

View INPADOC patent family

View list of citing documents

Abstract not available for CN1201355

Abstract of corresponding document: **US5970414**

The present invention is a method for accurately estimating a location of a mobile-telephone using forward link power control. In one embodiment, the present invention comprises the steps of transmitting first, second and third signals from first, second and third base stations during first, second and third time intervals; decreasing the power level of the first base station during at least portions of the second and third time intervals; receiving a mobile-telephone signal having receive information indicating times-of-arrivals of the first, second and third signals at the mobile-telephone; and estimating a location of the mobile-telephone using the receive information and known locations of the first, second and third base stations. Advantageously, this embodiment of the present invention actually decreases the interference level contribution of the first base station, and requires little change to the network side of existing wireless communication standards and no change to the mobile-telephone side.